

**We claim:**

1. A composition comprising a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum* having  
5       Moisture:               4-6%  
      Color:                Greenish white  
      Flavor:               Mild salty flavor  
      optionally along with one or more pharmaceutically acceptable additives.
2. A composition as claimed in claim 1, wherein the bioactive fraction is a  
10       hexane extract obtained from the fruits of *Cinnamomum zeylanicum*.
3. A composition as claimed in claim 1, wherein the composition has  
      antibacterial activity against gram positive and gram negative bacterial in the  
      range of 200-500 ppm.
4. A composition as claimed in claim 1, wherein the composition has  
15       antibacterial activity against *Bacillus cereus*, *Bacillus subtilis*, *Bacillus*  
      *coagulans*, *Pseucomonas aeruginosa*, *Staphylococcus aureus*.
5. Use of a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum*  
      having  
      Moisture:               4-6%  
20       Color:                Greenish white  
      Flavor:                Mild salty flavor  
      as an antibacterial agent.
6. Use as claimed in claim 5, wherein the bioactive fraction is a hexane extract  
      obtained from the fruits of *Cinnamomum zeylanicum*.
- 25   7. Use as claimed in claim 5, wherein the bioactive fraction has antibacterial  
      activity against gram positive and gram negative bacterial in the range of 200-  
      500 ppm.
8. Use as claimed in claim 5, wherein the bioactive has antibacterial activity  
      against *Bacillus cereus*, *Bacillus subtilis*, *Bacillus coagulans*, *Pseucomonas*  
30       *aeruginosa*, *Staphylococcus aureus*.
9. A process for preparing antibacterial bioactive fraction having  
      Moisture:               4-6%

Color: Greenish white

Flavor: Mild salty flavor

from the unconventional parts of *Cinnamomum zeylanicum*, said process comprising the steps of :

- 5 (a) extracting the powdered fruits of *Cinnamomum zeylanicum* with an organic solvent at a temperature in the range of 55-60°C for a time period in the range of 60-80 mesh.
- (b) filtering and concentrating the solvent obtained in step (a) to obtain a concentrate and to recover upto 90% of the solvent;
- 10 (c) drying the concentrate obtained in step (b) in a vacuum oven at 40-50°C under vacuum at 10-25 mm of mercury to obtain the antibacterial bioactive fraction.

10. A process as claimed in claim 9 wherein the organic solvent used is hexane.
11. A process as claimed in claim 10 wherein the yield of hexane extract is about  
15 1.5 to 3.0%.
12. A process as claimed in claim 9 wherein the filtration is carried out by conventional methods.
13. A process as claimed in claim 9 wherein the concentration temperature is of 55 – 60°C.
- 20 14. A process as claimed in claim 9 wherein the antibacterial bioactive fraction thus obtained has antibacterial activity against gram positive and gram negative bacterial in the range of 200-500 ppm.